

Title (en)
Power tool

Title (de)
Werkzeugmaschine

Title (fr)
Outil électrique

Publication
EP 2508302 A1 20121010 (EN)

Application
EP 12157743 A 20120301

Priority
JP 2011083935 A 20110405

Abstract (en)
In a power tool (1), a tubular gear case (9) is disposed frontwardly of a motor (3) and configured to accommodate a planetary gear speed reduction mechanism (20), a tubular motor bracket (8) is attached to the motor (3) and configured to connect the motor (3) and the gear case (9) together, and at least one pin (28) is pierced through the motor bracket (8) and the gear case (9) to connect the motor bracket (8) and the gear case (9) together. The at least one pin (28) is engaged with a first-stage internal gear (23A) located at a first stage of the planetary gear speed reduction mechanism (20) whereby the first-stage internal gear (23A) is restrained from rotating and located in position in an axial direction thereof.

IPC 8 full level
B25B 21/00 (2006.01); **B25F 5/00** (2006.01)

CPC (source: EP US)
B25F 5/001 (2013.01 - EP US)

Citation (applicant)
US 7066691 B2 20060627 - DOYLE MICHAEL C [US], et al

Citation (search report)
[AD] US 7066691 B2 20060627 - DOYLE MICHAEL C [US], et al

Cited by
US8968147B2; WO2022140775A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 2508302 A1 20121010; **EP 2508302 B1 20140122**; CN 102729222 A 20121017; CN 102729222 B 20140604; JP 2012218088 A 20121112; JP 5649500 B2 20150107; RU 2012113211 A 20131010; RU 2601529 C2 20161110; US 2012258832 A1 20121011; US 8684882 B2 20140401

DOCDB simple family (application)
EP 12157743 A 20120301; CN 201210094049 A 20120331; JP 2011083935 A 20110405; RU 2012113211 A 20120404; US 201213409761 A 20120301